	Application No.	Applicant(s)
Notice of Allowability	10/006,999	FABER ET AL.
	Examiner	Art Unit
·	Yubin Hung	2624
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS	ears on the cover sheet with the c	orrespondence address
herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	or other appropriate communication GHTS. This application is subject to	will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>amendment filed 11/2</u>	<u>20/06</u> .	
2. X The allowed claim(s) is/are 2-5,7-10,12-18 and 39-41.		•
3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the:		
 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. 		
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3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
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Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF tion is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawing the header according to 37 CFR 1.121(ngs in the front (not the back) of d).
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
		•
Address on A(n)	•	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal P	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7.	te ment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
	PAUMA	ELEMANTER

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

Notice of Allowability

Part of Paper No./Mail Date 20061218

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Response to Amendment/Arguments

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1. This action is in response to the amendment filed on Nov. 20, 2006, which has been entered.

- 2. In view of Applicant's amendment, the 35 USC § 112 rejections of claims 2-5, 7-10, 40 and 41 have been withdrawn.
- 3. Applicant's amendment has rendered moot the 35 USC § 102 and 103 rejections of claims 2-5, 7-10, 40 and 41.

Allowable Subject Matter

4. Claims 2-5, 7-10, 12-18 and 39-41 are allowed. [Note: Claim 39 recites "combination of unmodified values" in lines 17, 23 and 26, each corresponding to one of three passes of data processing (recited in lines 16-19, 20-25 and 26-28, respectively). It is clear that "unmodified" in each pass is with respect to the processed data from its preceding pass and is examined and allowed on this basis. Note further that this interpretation was indicated in the Office actions mailed 01/13/2006 and 07/20/06 and has not been traversed by Applicant.]

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5. The following is an examiner's statement of reasons for allowance:

A. Regarding claim 39, closest art of record Gormish discloses the limitations recited in the first three paragraphs of the claim (per the analysis of claim 1).

Additionally, Li et al. ("On implementing Transforms from integers to integers," Proc. ICIP, Vol. III, 4-7 Oct. 1998, pp. 881-885) discloses reversible integer-to-integer transform (for a given linear transform). However, neither teaches nor suggests modifying at least one data value using the three passes as recited in the claim.

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- B. Regarding claim 40, while closest art of record Gormish et al. ("Lossless and nearly lossless compression for high quality images," Proceedings of the SPIE, Vol. 3025, March 1997, pp. 62-70) discloses most of its limitations (per the analysis in the rejection of claim 40 in the office action mailed 07/20/06), it does not disclose, teach or suggest that the linear transform in question is a 2x2 diagonal matrix with a determinant of 1, is factored in one of the recited manners or that a corresponding error bound is minimized.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion and Contact Information

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7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- Hallapuro et al. (US 7,082,450) discloses a method that simplifies a DTC transform by diagonal factorization and approximating irrational matrix entries with rational numbers [columns 9 & 10]
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yubin Hung whose telephone number is (571) 272-7451. The examiner can normally be reached on 7:30 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on (571) 272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yubin Hung
Patent Examiner
Art Unit 2624

December 18, 2006